

DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER) BOARD AND CODE ADMINISTRATION DIVISION

MIAMI-DADE COUNTY PRODUCT CONTROL SECTION 11805 SW 26 Street, Room 208 Miami, Florida 33175-2474 T (786) 315-2590 F (786) 315-2599

www.miamidade.gov/economy

NOTICE OF ACCEPTANCE (NOA)

Armor Screen Corp. 1881 Old Okeechobee Road West Palm Beach, FL 33409

Scope:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER- Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the High Velocity Hurricane Zone of the Florida Building Code.

DESCRIPTION: "Armor Screen Series 63" Flexible Wind Abatement System

APPROVAL DOCUMENT: Drawing No. 01-2010, titled "Armor Screen Series 63 Hurricane Protection", sheets 1 through 11 of 11, prepared by Gary D. Foreman, P.E., dated October 01, 2010, signed and sealed by Gary D. Foreman, P.E. on March 30, 2015, bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and the expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

LABELING: Each panel shall bear a permanent label with the manufacturer's name or logo, City, State, the following statement: "Miami-Dade County Product Control Approved", and NOA number, per TAS-201, TAS-202, and TAS-203, unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA revises NOA # 12-0417.14 and consists of this page 1, evidence submitted pages E-1, E-2, & E-3 as well as approval document mentioned above.

The submitted documentation was reviewed by Helmy A. Makar, P.E., M.S.

MIAMIDADE COUNTY
APPROVED

NOA No. 15-0518.03 Expiration Date: 01/26/2017 Approval Date: 07/30/2015 Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 10-1104.03

A. DRAWINGS

Drawing No. 01-2010, titled "Armor Screen Series 63 Hurricane Protection", sheets 1 through 11 of 11, prepared by Gary D. Foreman, P.E., dated October 01, 2010, signed and sealed by Gary D. Foreman, on January 09, 2012.

TESTS В.

- Test report on Large Missile Impact Test, Cyclic Wind Pressure Test and Uniform 1. Static Air Pressure Test of Armor Screen Flexible Hurricane Wind Abatement System, prepared by Fenestration Testing Laboratory, Inc., Report No. 5889, dated August 26, 2009, signed and sealed by Julio E. Gonzalez, P.E.
- Test report on Large Missile Impact Test, Cyclic Wind Pressure Test and Uniform 2. Static Air Pressure Test of Armor Screen Flexible Hurricane Wind Abatement System, prepared by Fenestration Testing Laboratory, Inc., Report No. 5533, dated February 08, 2008, signed and sealed by Marlin Brinson, P.E.
- Test report on Large Missile Impact Test, Cyclic Wind Pressure Test and Uniform 3. Static Air Pressure Test of Armor Screen Flexible Hurricane Wind Abatement System, prepared by Fenestration Testing Laboratory, Inc., Report No. 5279, dated August 26, 2009, signed and sealed by Julio E. Gonzalez, P.E.

C. **CALCULATIONS**

Comparative Analysis and Anchor calculations dated October 20, 2010, 66 pages, prepared by Gary D. Foreman, P.E., signed and sealed by Gary d. Foreman, P.E.

QUALITY ASSURANCE D.

By Miami-Dade County Department of Permitting, Environment, and Regulatory Affairs (PERA).

MATERIAL CERTIFICATIONS Ε.

Fabric specifications.

EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 12-0223.13 2.

A. **DRAWINGS**

Drawing No. 01-2010, titled "Armor Screen Series 63 Hurricane Protection", sheets 1. 1 through 11 of 11, prepared by Gary D. Foreman, P.E., dated October 01, 2010, signed and sealed by Gary D. Foreman, on February 16 & 17, 2012.

В. **TESTS**

None. 1.

> Makar, P.E., M.S. **Product Control Unit Supervisor**

NOA No. 15-0518.03 Expiration Date: 01/26/2017

Approval Date: 07/30/2015

Armor Screen Corp.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

C. CALCULATIONS

1. None.

D. QUALITY ASSURANCE

1. By Miami-Dade County Department of Permitting, Environment, and Regulatory Affairs (PERA).

E. MATERIAL CERTIFICATIONS

None.

F. OTHERS

1. Florida Building Code, 2010 Edition, Compliance Statement Letter by GD Foreman PE, SE, AIA, dated February 16, 2012, signed and sealed by Gary D Foreman, P.E.

3. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 12-0417.14

A. DRAWINGS

1. Drawing No. 01-2010, titled "Armor Screen Series 63 Hurricane Protection", sheets 1 through 11 of 11, prepared by Gary D. Foreman, P.E., dated October 01, 2010, signed and sealed by Gary D. Foreman, P.E. on January 30, 2013.

B. TESTS

- 1. Test report on End Retention Component B of Armor Screen Flexible Hurricane Wind Abatement System, prepared by Architectural Testing, **Report No. C5783.01-450-43**, dated 01/29/2013, signed and sealed by Vinu J. Abraham, P.E.
- 2. Test report on Large Missile Impact Test, Cyclic Wind Pressure Test and Uniform Static Air Pressure Test of Armor Screen Flexible Hurricane Wind Abatement System, prepared by prepared by Architectural Testing, Report No. C1475.01-450-18, dated 08/31/2012, signed and sealed by Vinu J. Abraham, P.E.

C. CALCULATIONS

1. None.

D. QUALITY ASSURANCE

1. By Miami-Dade County Department of Regulatory and Economic Resources.

E. MATERIAL CERTIFICATIONS

1. Self Ignition Temp. test, Rate of Burning test, and Smoke Density test by Hurricane Engineering & Testing, test report # HETI-12-F105, dated 04/11/2012, signed and sealed by Rafael E. Droz-Seda, P.E.

Heliny A. Makar, P.E., M.S. Product Control Unit Supervisor

oduct Control Unit Supervisor NOA No. 15-0518.03

Expiration Date: 01/26/2017 Approval Date: 07/30/2015

Armor Screen Corp.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

4. NEW EVIDENCE SUBMITTED

A. DRAWINGS

1. Drawing No. 01-2010, titled "Armor Screen Series 63 Hurricane Protection", sheets 1 through 11 of 11, prepared by Gary D. Foreman, P.E., dated October 01, 2010, signed and sealed by Gary D. Foreman, P.E. on March 30, 2015.

B. TESTS

1. None.

C. CALCULATIONS

1. None.

D. QUALITY ASSURANCE

1. By Miami-Dade County Department of Regulatory and Economic Resources.

E. MATERIAL CERTIFICATIONS

1. None.

Heimy A. Makar, P.E., M.S. Product Control Unit Supervisor

NOA No. 15-0518.03

Expiration Date: 01/26/2017 Approval Date: 07/30/2015

ARMOR SCREEN SERIES 63 HURRICANE PROTECTION

GENERAL NOTES:

- This Wind Abatement / Impact Hurricane Protection System is designed and tested to comply with the High Velocity Hurricane Zone (HVHZ) of the Florida Building Code, 2014 Edition.
- The design loads are calculated in accordance with ASCE-7 per the Florida Building Code and ASCE/SEI 7-10 per allowable stress design (ASD).
- Testing meets the current Florida Building Code: TAS 201; TAS 202; TAS 203 and fulfills its requirement for opening protection.
- The unbreached envelope criterion is met when this approved wall component encloses the protected opening all around.
- The open areas in the Armor Screen Fabric are small enough that the surface tension of water causes the barrier screen to become solid in the presence of rain, and in actual hurricane conditions has been shown to prevent damaging voluminous water intrusion, even from torrential rains.
- Has satisfied checklist #0445 for resistance to burning, smoke, ignition, temperature, and weathering and qualifies as a permanently installed building component; ASTM G155, ASTM D638, ASTM C158, ASTM D635 - C1, ASTM D1929.
 - ASTM G155
 - ASTM D638
 - ASTM C158
 - ASTM D635 C1 ASTM D1929
- Product Marking: A permanent label shall be affixed to the screen barrier with the following statement: "Armor Screen Corporation, Current Address, "Miaml-Dade County Product Control Approved", Patented and Patents Pending, US Patent No. 6176050".

PRODUCT DATA:

 Geosynthetic hurricane screen: The hurricane screen shall be produced from a polypropylene, woven geotextile fabric with filaments woven such that the filaments retain dimensional stability relative to each other.

The woven geoteytile fabric shall have the following minimum average roll values:

THE MOVELL REGIEVING INDITE SIL	iali Have the lollowing i	Illi lilli di la average i oli value
Grab Textile Strength	(ASTM D4632)	425 x 325 LBS
Puncture Strength	(ASTM D4833)	130 LBS
Mullen Burst	(ASTM D3786)	675 PSI
Trapezoidal Tear	(ASTM D4533)	150 x 125 LBS
Wide Width Tensile Strength	(ASTM D4595)	225 x 205 LBS/IN
Thickness	(ASTM D5199)	20 MIL.
Wide Width Elongation	(ASTM D4595)	22 x 21%
Apparent Opening Size	•	30 US STD Sieve
Percentage of Open Area		5%

All Geosynthetic Hurricane Screen assembly details depicted within these drawings are typical for the installation of this wind / rain abatement and impact system only. All other building components shown herein are depicted as existing or samples and not constructed by the screen company.

LIMITATIONS OF USE:

Maximum Span

Unlimited, Utilizing side overlapping details, page 4

Maximum Non-Span +60 / -63 PSF Maximum Design Pressure

• Span (anchor span) equals the distance between the primary rows of anchors on opposing sides of the screen and when calculated with negative wind pressure, determines fastener size and spacing. "Opening Span" is equal to the opening size of the protected opening and when calculated with the positive wind pressure, determines the deflection for HVHZ applications. Refer to page 11 for Deflection Table.

INSTALLATION NOTES:

- Deflection is the minimum glass separation measured at mid span of the screen and subject to Interpolation between listed spans (see tables on page 11). Separation offset may be achieved alone or by any combination thereof, Natural Deflection, Angled Style Screens, Storm Bars and Pneumatic Devices.
- Screen may be mounted with opposing primary anchored perimeters (span) in vertical, horizontal, or any alignment appropriate to the structure being protected.
- If the screen does not return to the structure it should extend past protected opening by distance equal to or greater than 1 ½ times the offset. For trapped openings the screen should extend complete to fill the opening.
- The screens may be installed at any height on the structure as long as the design pressure rating for the screens is not exceeded.
- Anchors on the non-primary perimeter side (span side) of the screen are optional (e.g. to limit potential sag in the screen or reduce movement on the free side or other site
- The thickness of typical facing materials i.e. stucco, siding, stone, brick, pavers, etc. are not to be considered part of the anchor embedment. Longer fasteners should be used to allow for facing materials.
- Anchor embedment into masonry shall be into the face shell, not mortar joints.
- All fully embedded anchors may be flush with the finished facing provided they have the correct embedment into the structure behind the finish material.
- Anchor installations should follow the manufacturer's recommended methods.
- Hex Nuts, Flange Nuts, Cap Nuts, Wing Nuts, etc. (¾" o.d. minimum), are acceptable when used with Hanger Bolt or Male Studs penetrating the fabric only.
- For attachment into female anchors, sidewalk bolts, washered head bolts or bolts with a standard washer are required.
- A caulk or sealant should be used with all wood penetrating anchors.
- All fasteners shall be corrosion resistant as specified in the IRC and IBC or stainless
- Refer to pages 9 and 10 for approved anchors and anchor spacing.
- Refer to page 11 for deflection and storm bar tables.

ARMOR SCREEN Engineering Review By: SERIES 63 HURRICANE PROTECTION ARMOR SCREEN CORP. 1881 Old Okeechobee Road West Palm Beach, FL 33409 (561) 841-8890 www.armorscreen.com Date: 10/01/10 Scale: Not to Scale Page: 1 of 11 Cary D Foreman PE FU PE 57343 **DRAWING NO. 01-2010**

PRODUCT REVISED as complying with the Florida Building Code

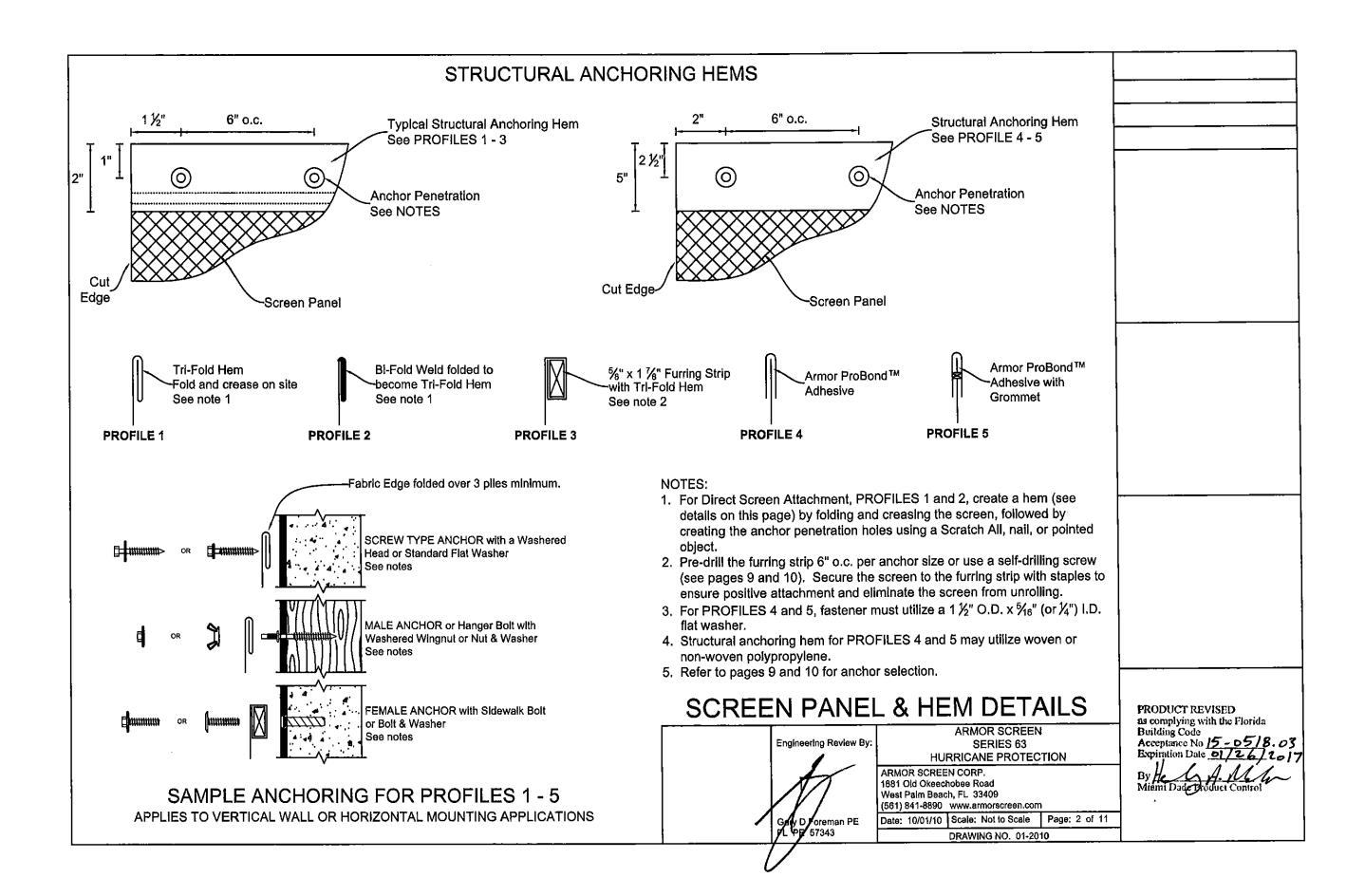
REVISIONS

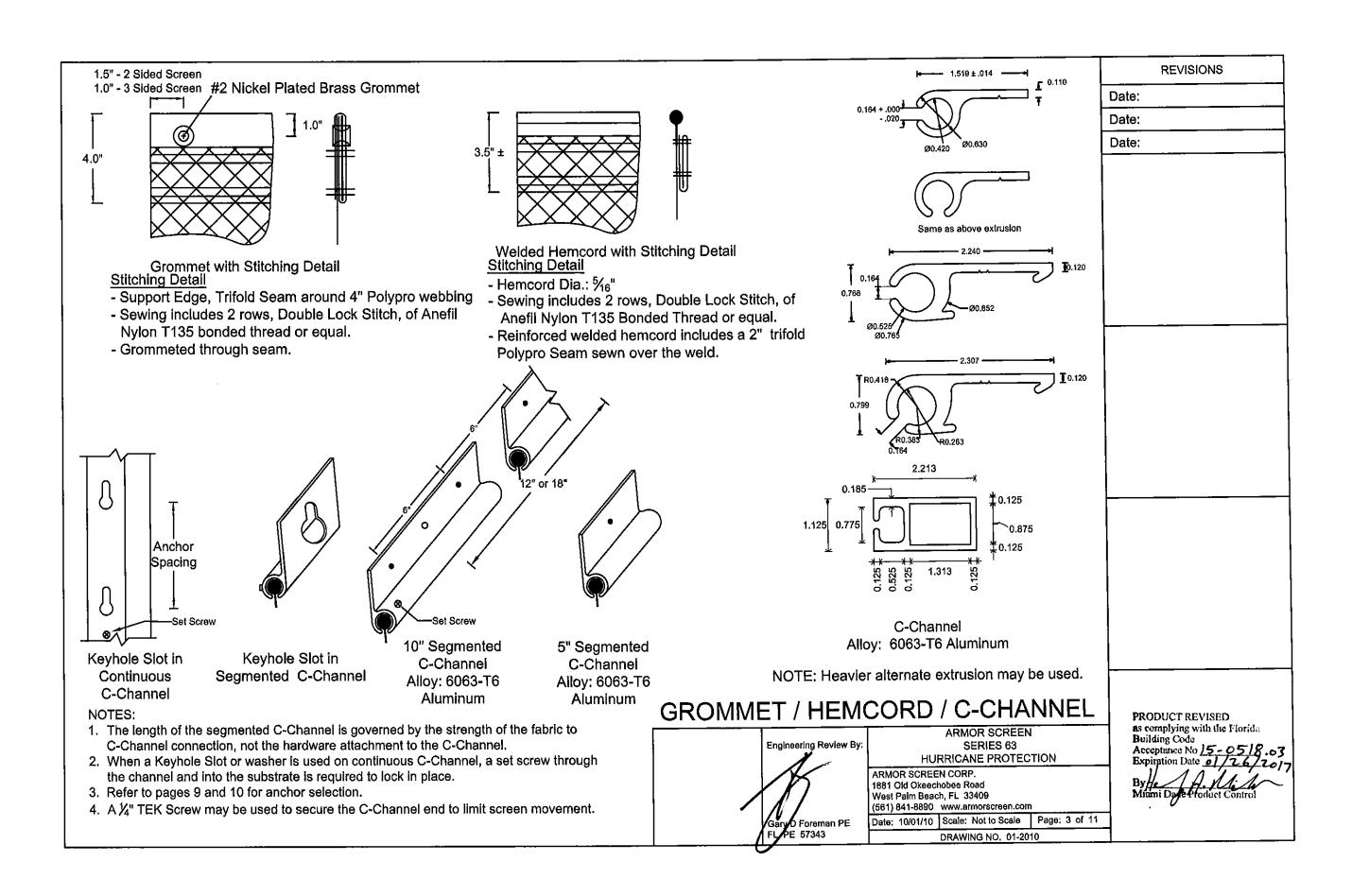
Date:

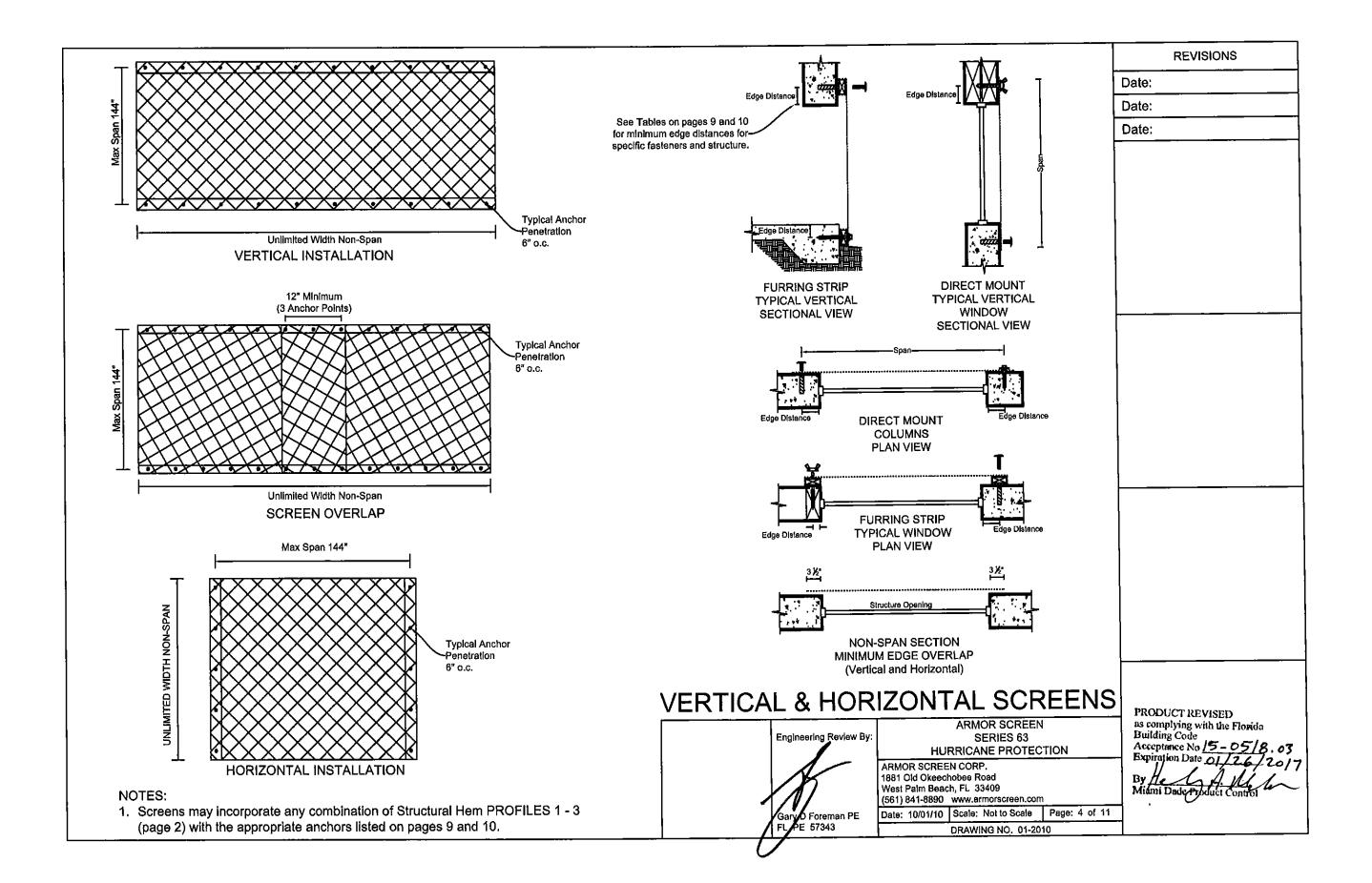
Date:

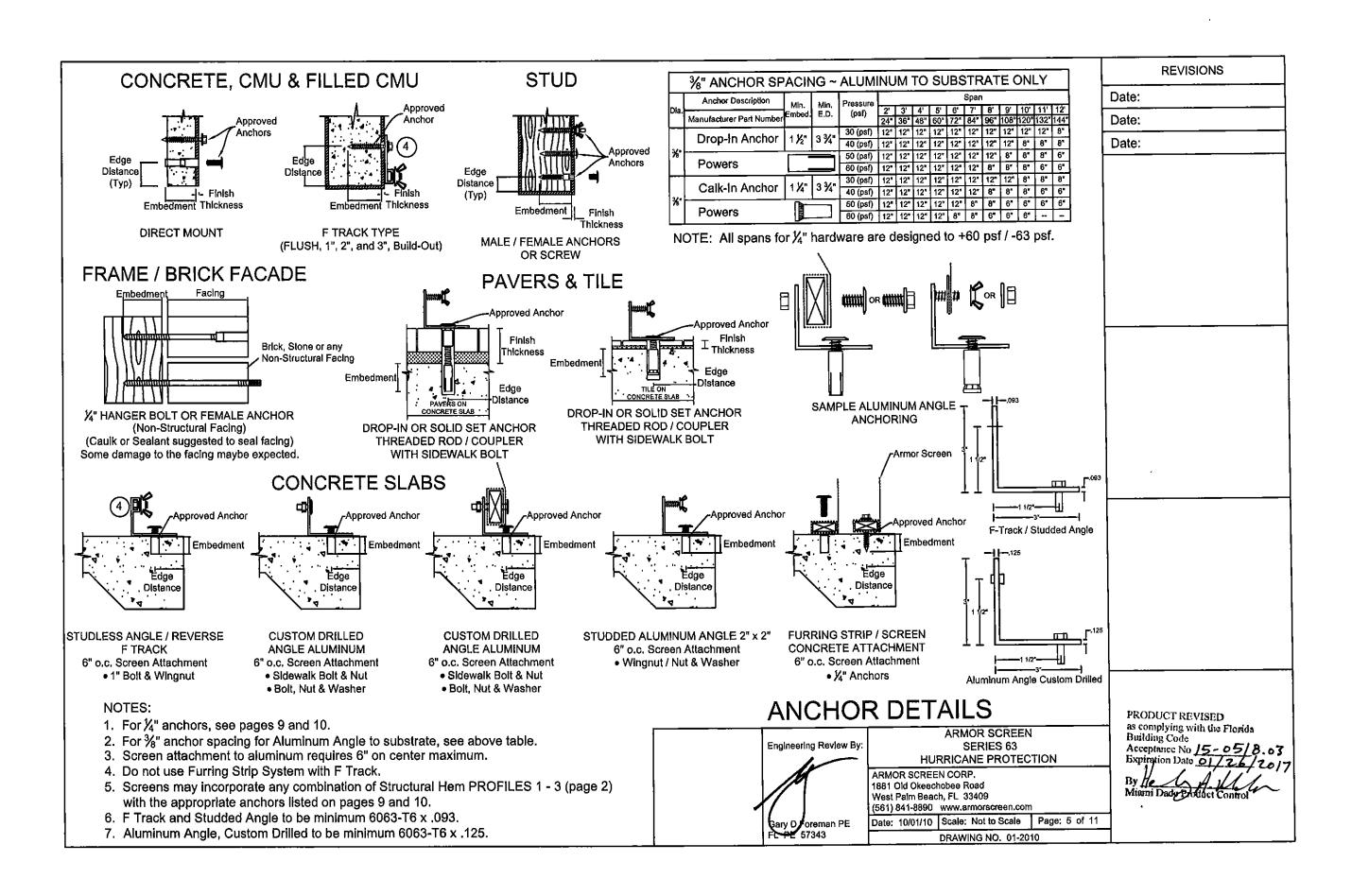
Date:

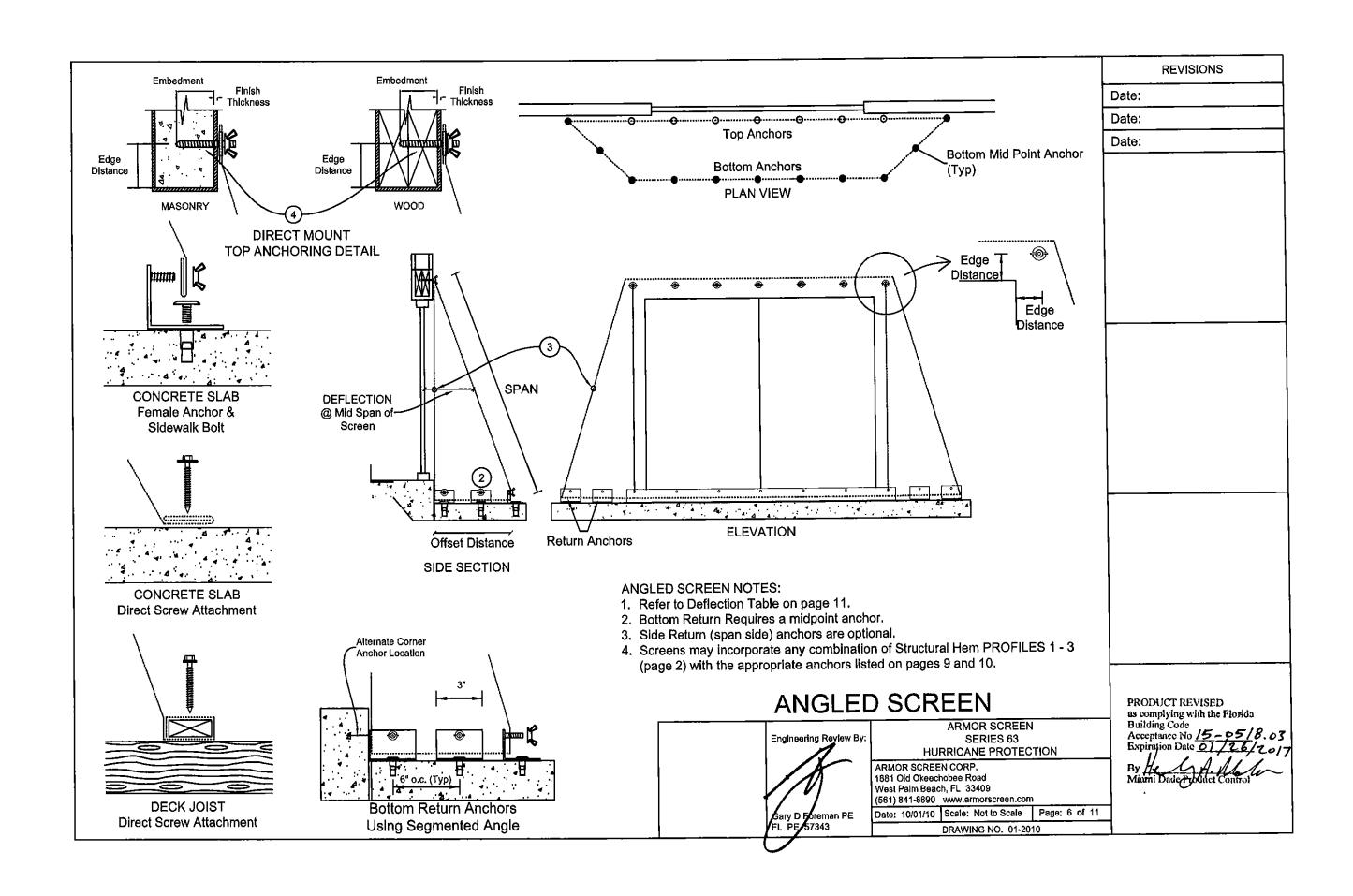
Acceptance No 15-05/8.03
Expiration Date 01/26/2017

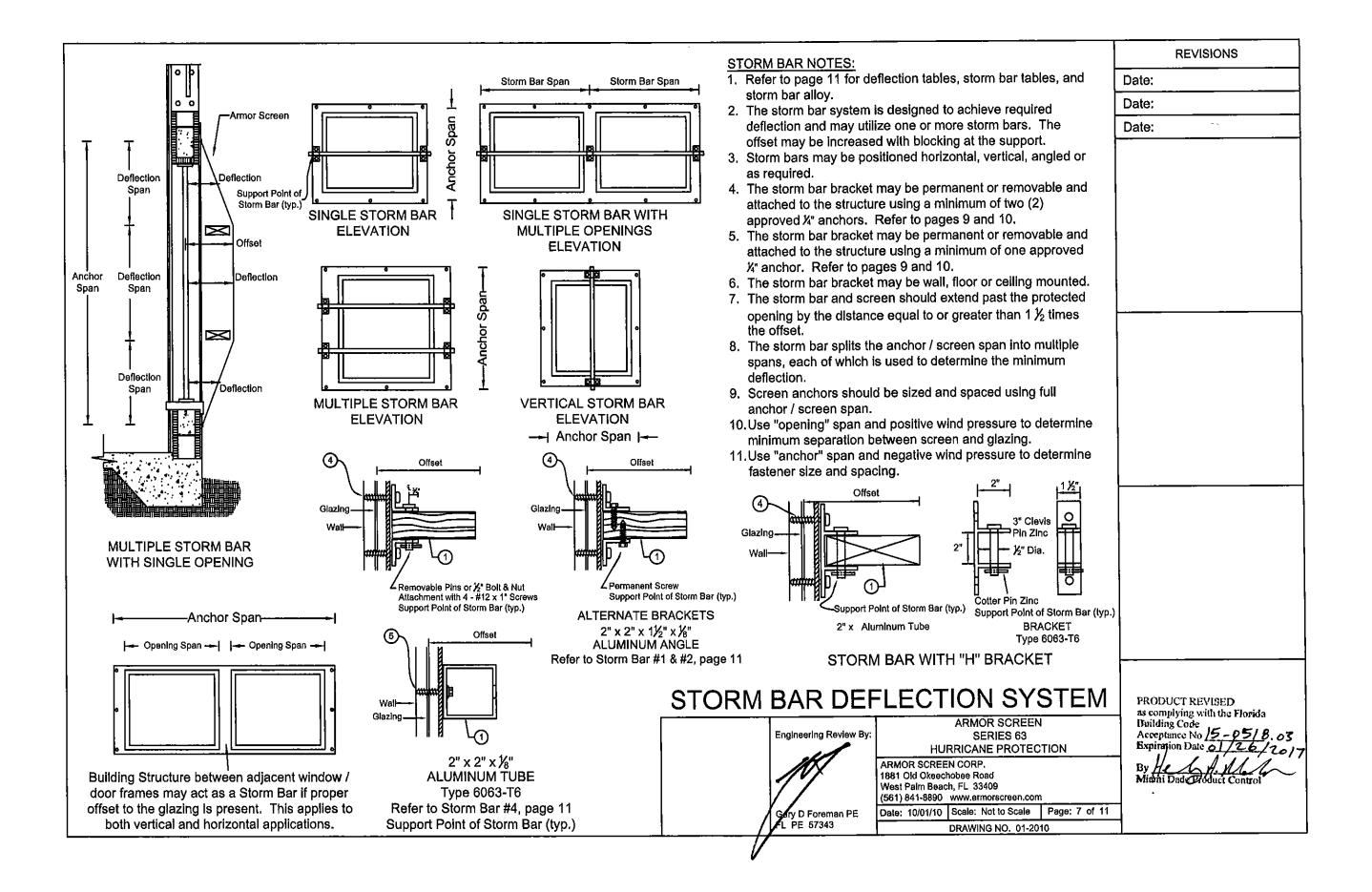


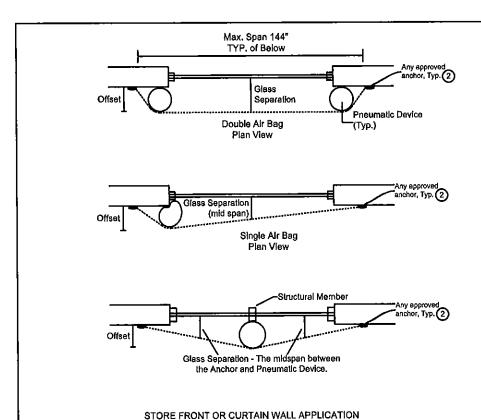










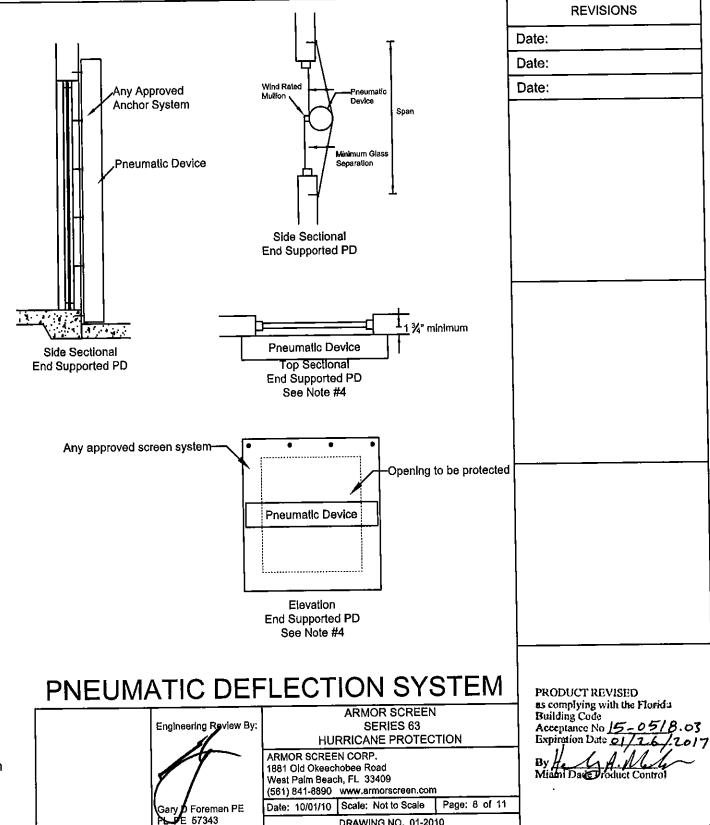


PNEUMATIC DEVICE (PD) SPECIFICATIONS:

- 1. Pneumatic Device consists of two parts, a refillable polymer air bladder, diameter as appropriate to achieve glass separation, capable of holding air without perceptible leakage, and a tough fabric cover for structural integrity and durability.
- 2. May be inflated by any residential or commercial vacuum cleaner, or air pump intended for air mattresses or equivalent devices.
- 3. Upon removal, the Pneumatic Device should be deflated and stored with screen barrier.

NOTES: PNEUMATIC DEVICE (PD) DEFLECTION SYSTEM

- 1. Refer to the Deflection Table on page 11 to determine PD diameter.
- 2. Refer to pages 9 and 10 for approved anchors.
- 3. The PD not supported directly on glazing may rest on a wind rated window mullion.
- 4. The pneumatic device may be attached to barrier and may rest on but not attached to the structure.
- 5. Inflation of the device requires a minimum pressure of 2.0 psi.
- 6. One or more devices may be used to achieve required HVHZ separation.
- 7. This system may be positioned horizontally, vertically, or as required.
- 8. The pneumatic device may be permanently attached to the screen or not.
- 9. The sleeve should not be attached to the building structure.
- 10. The pneumatic device should be positioned to provide adequate glass separation between the screen / barrier and surface being protected.



DRAWING NO. 01-2010

3000 PSI CONCRETE								
Dia.	Anchor Description Manufacturer Part Number	Min. Embed.	Min. E.D.	Maximum Span (Inches)	Anchor Spacing			
44-	Tapcon	1 ½"	3"	144"	6"			
% "	Elco or ITW	***********		144	b			
½ "	Maxl-Set Tapcon	1 ½"	2 1/2"	144"	6"			
/4	ITW ##	WWW.>		144				
у.	Panelmate (Male or Female)	1 3/4"	2 1/2"	144"	6"			
74	Elco -	***************************************	144					
γ ,"	Panelmate Inserts	1 %"	3"	144"	6"			
74"	Elco	777	<u>Z</u>	144				
¼ "	Tapcon SG	1 3/4"	2 1/2"	144"	6"			
74"	ITW (¼" × 2 ¼")		<i><######</i>	144				
1 4"	Sammy's SSC	2 1/4"	2 ½"	144"	6"			
74	ITW □-							
<i>γ</i> _{4"}	Solid Set Anchor	<i>%</i> ™	3"	132"	6"			
/4	All Points			102	Ĭ			
<i>Y</i> 4"	Calk-In Anchor	<i>%</i> "	3"	132"	6"			
/4	Powers			102				
% "	Drop-In Anchor	1"	3 "	144"	6"			
/4	Powers			17-7				

	SOLID GROU	JTEI) CI	MU		
ola.	Anchor Description	Min.	Mln. E.D.	Maximum Span	Anchor Spacing	
	Manufacturer Part Number	-		(Inches)	Opading	
и	Spax Screw	1 1/2"	2 1/2"	144"	6"	
′4	Spax				L	
445	Tapcon	1 1/2"	3"	144"	6"	
¼ ° ∤	Elco or ITW			144		
441	Maxi-Set Tapcon	1 ½"	2 1/2"	144"	6"	
1 4"	ITW #	W 4				
	Panelmate (Male or Female) 1 3/4"	2 ½"	144"	6"	
1⁄4°	Elco -	144				
44	Panelmate Inserts	1 1%"	З*	108"	6"	
14"	Elco	<u> </u>	Z) _	100		
44-	Tapcon SG	1 3/4"	2 1/2"	144"	6"	
1 4º	ITW (¼" × 2 ¼")	4		1 144		
44	Sammy's SSC	2 1/4"	2 1/2"	144"	6"	
14º	ITW 🗀	- 4		144		
4/11	Solid Set Anchor	7 ∕8"	3"	96"	6"	
1 4º	All Points			30		
1/2	Calk-In Anchor	% "	3"	108"	6"	
¼ "	Powers			100	<u> </u>	
145	Drop-In Anchor	1 "	3 "	132"	6"	
¼ °	Powers			102	"	

	CONCRETE B	LOC	K (C	_	
ola.	Anchor Description	Min.	Min. E.D.	Maxlmum Span	Anchor Spacing
	Manufacturer Part Number		_	(inches)	
,,	Spax Screw	11/4"	2½"	72"	6"
¼" 	Spax 🕬				
44.0	Tapcon	11/4"	21/2"	72"	6"
¼°	Elco or ITW			, , ,	
	Maxi-Set Tapcon	1"_	4"	36"	6"
¼ "	ITW ₫				
	Panelmate (Male or Femal	e) 11/4"	3 1/2"	120"	6"
% "	Elco - ummu		Ĭ.		
4.	Panelmate Inserts	1 1/4"	3½"	120"	6"
¼ "	Elco	777	$Z_{\mathcal{I}}$	120	
	Tapcon SG	1 1/4"	21/2"	72"	6"
<i>1</i> 4°	ITW -			12	
	Sammy's SSC	1 1/4"	21/2"	72"	6"
<i>1</i> 4"	ITW	}===		, , ,	
. 4.1-	Solid Set Anchor	7∕8"	3"	96"	6"
¼ "	All Points				
	Calk-In Anchor	%"	3"	84"	6"
<i>1</i> 4°	Powers			"	

PRODUCT REVISED	
as complying with the	Flor
Building Code	^ <i>E</i>

REVISIONS

Date: Date: Date:

Maximum spans designed to +60 psf / -63 psf.
 Provide longer fasteners, if required, to allow for thickness of non-structural finishes such as stucco, plaster, brick, stone, siding, etc.
 All anchor holes to be clean and dust free before inserting intended anchor.

- 4. All anchors to be as specified.5. Edge distances and embedments are minimums.

	Engineering Review By:
	At)
II.	
/	Gary D Foreman PE FL PE 57343
	FI PE 57343

ARMOR SCREEN SERIES 63 HURRICANE PROTECTION ARMOR SCREEN CORP.
1881 Old Okeechobee Road
West Palm Beach, FL 33409
(561) 841-8890 www.armorscreen.com
Date: 10/01/10 Scale: Not to Scale Page: 9 of 11

DRAWING NO. 01-2010

	WOOD SYP #2 (G = 0.55)							
Ola.	Anchor Description Manufacturer Part Number	Min. Min. I		Maximum Span (Inches)	Anchor Spacing			
	Spax Self Drilling Screw	2"	¾"	144"	0"			
14"	Spax damana				6"			
	Lag Screw	2"	3/4"	4.4411	0"			
<i>1</i> 4"				144"	6"			
	Tapcon or #14 Wood SC	2"	3/4"	44411	CII			
<i>1</i> 4"	Elco or ITW			144"	6"			
	Panelmate (Male or Female)	2"	3/4"	144"	6"			
<i>1</i> /4"	Elco	144	"					
445	Panelmate Inserts	1 1%"	11/4"	144"	6"			
¼ "	Elco				6"			
4	Tapcon SG	2"	34"	144"	6"			
14"	ITW □ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ 		144	6				
ue	Sammy's SSC	2™	3⁄4"	144"	6"			
14"	ITW 🗀	mmumu	·······	144	0			
	Hanger Bolt	2™	3/4"	444"	6"			
1/4"				144"	6			

NOTES:

- 1. Maximum spans designed to +60 psf / -63 psf.
- 2. Caulk or sealant is recommended for all penetrations into a wood substrate.
- 3. Provide longer fasteners, if required, to allow for thickness of non-structural finishes such as stucco, plaster, brick, stone, sldlng, etc.
- 4. All anchors to be as specified.
- 5. Design as per NDS 2012.
- 6. Douglas Fir Larch is an acceptable alternate.
- 7. Edge distances and embedments are minimums.

	STEEL AND ALUMINUM							
		Anchor Description	Min.	Min.	Maximum Span	Anchor		
	Dla. Manufacturer Part Number En		Embed.	E.D.	(inches)	Spacing		
age Metal Studs	1 /4"	Self Drilling Screws	note 2	1/2"	72"	6"		
200		1/4"-14 TEKS	>		12			
18 Gage Metal Studs	1/1	Self Drilling Screws	note 2	1/2"	96"	6"		
18 Gag Sh	1 /4"	1/4"-14 TEKS	>		96"			
¥a Steel	% "	Self Drilling Screws	note 2	1/2"	144"	6"		
*		1/4"-14 TEKS ☐	**		144			
A) Steel	1/1	Self Drilling Screws	note 2	1/2"	144"	6"		
)(12 GA) Steel	14"	¼"-14 TEKS ₫••••	# >		144	U		
% and % Steel	140	Rivet Nuts		3/4"	144"	6"		
% and	14"	1⁄4" - 20 Atlas]					
minum T.F	1,,,	Self Drilling Screws	note 2	1/2"	120"	6"		
X. Aluminam enes-Te	1/4"	¼"-14 TEKS ₫••••	-		120			
E SE	1/-	Rivet Nuts		3/4 M	144"	6"		
X Aluminum	14"	1⁄4" - 20 Atlas	⋽] 144			

NOTES:

- 1. Maximum spans designed to +60 psf / -63 psf.
- 2. Provide longer fasteners, if required, to allow for thickness of non-structural finishes such as stucco, plaster, brick, stone, siding, etc.

- Screws shall extend past metal at least ¼".
 All anchors to be as specified.
 Edge distances and embedments are minimums.

Foot and a Boulou B	ARMOR SCREEN					
Engineering Review By	SERIES 63					
/_	HURRICANE PROTECTION					
	ARMOR SCREEN CORP.					
	1881 Old Okeechobee Road					
///	West Palm Beach, FL 33409					
177	(561) 841-8890 www.armorscreen.com					
Gary D Foreman PE	Date: 10/01/10 Scale: Not to Scale Page: 10 of 11					
FL PZ 57343	DRAWING NO. 01-2010					

	Date:
	Date:
	Date:
	· · · · · · · · · · · · · · · · · · ·
	PRODUCT REVISED
	as complying with the Florida Building Code

REVISIONS

	STORM	BAR	TAB	LE					
	Storm Bar Span / Length	3'	4'	5'	6'	81	10'	121	14'
	Max. PSF	Per Deflection Table							
	Deflection			Per D	eflect	ion Ta	able		
1	Wood 2" x 6"	X	х	х	Х				
2	Wood 2" x 8"	х	х	х	х	X			
3	Alum. Tube 1" x 2" x ½" 6063-T6	х							
4	Alum. Tube 2" x 2" x ½" 6063-T6	х	х	х					
5	Alum. Tube 2" x 4" x ½" 6061-T6	x	x	х					
6	Alum. Tube 2" x 4" x ¼" 6061-T6	х	х	х	х				
7	Alum. Tube 2" x 6" x 1/6" 6063-T6	х	х	х	x	×			
8	Alum. Tube 2" x 6" x ¼" 6061-T6	х	х	х	х	x	×	х	
9	Alum. Tube 2" x 8" x ¼" 6061-T6	х	х	х	х	х	х	х	x

NOTES:

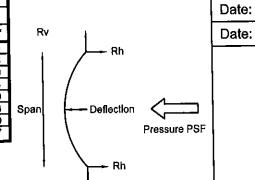
- 1. Wood Storm Bar #1 and #2 requires alternate storm bar bracket, see detail
- 2. Wood Storm Bar #1 and #2 to be #2 SYP (Southern Yellow Pine) or Douglas Fir-Larch.
- 3. Storm Bars #3, #4, #5 and #6, screen width supported by storm bars shall be equal to span or 6' maximum. For screens wider than maximum width use multiple storm bars.

MINIMUM GLASS SEPARATION TABLE							
Span	Span	Span Deflection in inches					
in feet	in inches	30 psf	40 psf	50 psf	60 psf		
2 ft.	24	3.0	3.1	3.3	3.5		
3 ft.	36	4.0	4.2	4.4	4.8		
4 ft.	48	4.9	5,3	5.5	6.0		
5 ft.	60	5.9	6.3	6.7	7.3		
6 ft.	72	7.2	7.8	8.1	9,0		
7 ft.	84	8.2	8.8	9.3	10.2		
8 ft.	96	9.2	9.9	10.4	11.5		
9 ft.	108	10.2	11.0	11.5	12.8		
10 ft.	120	11.2	12.0	12.7	14.0		
11 ft.	132	12.2	13.1	13.8	15.3		
12 ft.	144 _	13.1	14.2	14.7	16.5		

NOTES:

- 1. Deflection is the minimum glass separation measured at MID SPAN of the screen and subject to interpolation between listed spans.
- 2. One inch (1") has been added to actual minimum separation for safety factor.

	SC	REE	N RE	ACTI	ONS	FOR	PRE	SSUF	RE A	ND SI	PAN_	
		Span										
Load (psf)		2'	3'	4'	5'	6'	7'	8'	9'	10'	11'	12'
		24"	36°	48°	60"	72"	84"	96"	108⁴	120"	132"	144"
(II) F	TRh	30	45	60	75	90	105	120	135	150	16 <u>5</u>	180
	Rv	94	141	188	234	281	328	375	422	469	51 <u>6</u>	56 <u>3</u>
40	Ŕ'n	40	60	80	100	120	140	160	180	200	220	240
	Rv	112	169	225	281	337	393	449	506	562	618	674
50 R	Rh	50	75	100	125	150	175	200	225	250	275	300
	Rv	129	193	258	322	387	451	515	580	644	709	773
60	Rh	60	90	120	150	180	210	240	270	300	330	360
	Rv	143	214	286	357	429	500	571	643	714	786	857



			Date.
Rv	1		Date:
Span	Rh Deflection	Pressure PSF	

REVISIONS

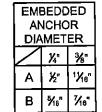
PRODUCT REVISED
as complying with the First Building Code

Acceptance No 15 - 05 18.03 Expiration Date 01/26/201

Date:

NOTES:

- 1. Reaction Rh can be positive (towards structure) or negative (away from
- 2. Rv is always tension as shown.



- A Internal Thread Length
- B Minimum Thread Engagement

MINIMUM BOLT THREAD ENGAGEMENT

NOTES:

- 1. Table applies to any threaded connection.
- 2. Refer to anchor spacing tables, pages 9 and 10, for anchor embedment.
- 3. Edge distances and embedments are minimums.

ARMOR SCREEN Engineering Review By: SERIES 63 HURRICANE PROTECTION ARMOR SCREEN CORP. 1881 Old Okeechobee Road West Palm Beach, FL 33409 (561) 841-8890 www.armorscreen.com Date: 10/01/10 Scale: Not to Scale Page: 11 of 11 Gap D Foreman PE FL PE 57343 DRAWING NO. 01-2010